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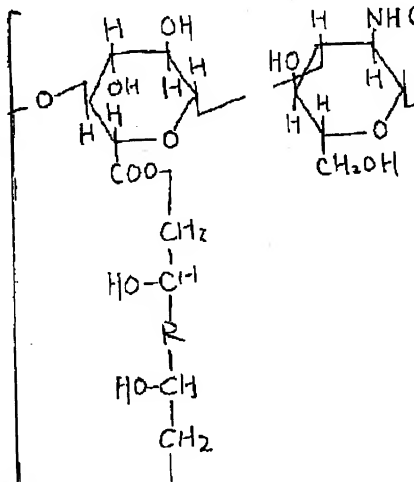
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(54) **CROSSLINKED
HYALURONIC ACID,
SUSTAINED-RELEASE
PREPARATION, AND PLUG**

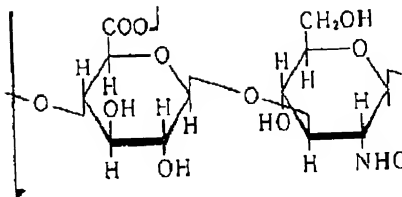
(57) Abstract:

PURPOSE: To obtain a water-insoluble, low-swelling, crosslinked hyaluronic acid for a sustained-release preparation and a plug by crosslinking the carboxyl groups of a hyaluronic acid residue with an epoxy-terminated crosslinking agent.

CONSTITUTION: The title acid is represented by the formula (wherein R is the residue of an epoxy crosslinking agent) and is formed by crosslinking the carboxyl groups of a hyaluronic acid residue with an epoxy-terminated crosslinking agent (e.g. diglycidyl ether or diglycidyl ester). The degree of crosslinking of the acid is desirably such that the content of the crosslinked carboxyl



groups is 0.3% or above based on all the carboxyl groups of the hyaluronic acid. A sustained-release preparation is formed from a conjugate of the crosslinked hyaluronic acid with a medicine. A desirable example of the sustained-release preparation is an anticancer agent in which the medicine and the crosslinked hyaluronic acid form a conjugate through the ionic interaction of the carboxyl groups of the hyaluronic acid on the medicine. Further, a plug can be formed from the water-insoluble crosslinked hyaluronic acid.



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? Title: **JP7097401A2: CROSSLINKED HYALURONIC ACID, SUSTAINED-RELEASE PREPARATION, AND PLUG**
 ? Country: JP Japan
 ? Kind: A
 ? Inventor: HARIKI TOSHIO;
 YAMAGUCHI MICHIO;
 ONO KIMIO;
 UCHIDA MASARU;
 ? Assignee: SHISEIDO CO LTD
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